

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A light intensity distribution measuring apparatus for measuring a light intensity distribution in light with a wavelength of 20 nm or smaller emitted from a light source, said light intensity distribution measuring apparatus comprising plural light intensity detector units each including a mirror and a photoelectric conversion element, said light intensity distribution measuring apparatus measuring the light intensity distribution so that each of an incident angles angle of the light incident upon each the mirror of the plural light intensity detector units is a predetermined angle,

wherein the incident angle of the light upon the mirror is approximately equal to a Brewster angle for the light in each of the plural light intensity detector units, and

wherein each of the light intensity detector units is rotatable by approximately 90° while maintaining an incident direction of the light upon the light intensity detector unit.

2. (Original) A light intensity distribution measuring apparatus according to claim 1, wherein the photoelectric conversion element measures the light intensity in a range where a solid angle viewed from the light intensity detector unit to a condensed point of the light is below 0.024 steradians.

3. (Currently Amended) A light intensity distribution measuring apparatus according to claim 1, wherein the light source condenses the light emitted at an emission point and diverges

the light at a predetermined divergent angle, and the plural light intensity detector ~~unit is~~ units ~~are~~ arranged on a spherical surface that has a center at a condensed point.

4. (Currently Amended) A light intensity distribution measuring apparatus according to claim 1, wherein the plural light intensity detector ~~unit is~~ units are arranged on a plane arranged in the light.

5. (Currently Amended) A light intensity distribution measuring apparatus according to claim 3, wherein a the surface on which the plural light intensity detector ~~unit is~~ units are arranged is rotatable around an optical axis of the light.

6-7. (Canceled)

8. (Currently Amended) A light intensity distribution measuring apparatus according to claim 1, wherein each of the plural light intensity ~~distribution~~ detector ~~unit~~ units has a first mirror, a first plural mirrors and photoelectric conversion ~~elements~~ element corresponding to the first mirror ~~respective mirrors~~, a second mirror and a second photoelectric conversion element ~~corresponding to the second mirror~~, a direction of light reflected by the first mirror ~~the light~~ incident upon the ~~plural mirrors plural surfaces~~ is orthogonal to a direction of plural surfaces ~~that~~ has light reflected by ~~each of the second mirror plural mirrors~~, and each of the incident angles ~~angle~~ of the light upon the first and second mirrors ~~mirror~~ is approximately equal to a Brewster angle for the light.

9-10. (Canceled)

11. (Original) A light intensity distribution measuring method for measuring a light intensity distribution of light with a wavelength of 20 nm or smaller emitted from a light source, said light intensity distribution measuring method using a light intensity detector unit that includes a mirror and a photoelectric conversion element which are arranged so that an incident angle of the light upon the mirror is approximately equal to a Brewster angle for the light, and said light intensity distribution measuring method measuring the light intensity of the light reflected by the mirror, which light has different directions of polarization by approximately 90° at approximately the same position in the light.

12. (Original) A light intensity distribution measuring method according to claim 11, comprising the step of repetitively measuring the light at different measurement positions in the light.